

APD 1600J

Engine : Aksa Alternator : Mecc Alte Control System : P 732 control system



CE

This generator set is available with CE certification.

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	Standby Rating (ESP)		Prime Rating (PRP)			
Voltage	kVA	kW	kVA	kW	Amp	
400/230	1600,00	1280,00	1450,00	1160,00	2092,00	

Standby Rating (ESP):

Applicable for supplying power to varying electrical load for the duration of power interruption of a reliable utility source. ESP is in accordance with ISO 8528. Overload is not allowed.

Prime Rating (PRP):

Applicable for supplying power to varying electrical load for unlimited hours. PRP is in accordance with ISO 8528. 10 % overload capability is available for a period of 1 hour within 12-hour period of operation, in accordance with ISO 3046.

STANDARD SPECIFICATIONS 0

Heavy duty, water cooled diesel engine 46/50 $^\circ\text{C}$ ambient rated radiator with mechanical fan Protective grille for fan and rotating parts Electric starter and charge alternator Starting battery (with lead acid) including rack and cables Engine jacket cooling heater Steel base frame and anti-vibration isolators Spare Fuel Tank Flexible fuel connection hoses Single bearing, class H alternator Industrial exhaust silencer and steel belows supplied separately Static battery charger Manual for use and installation

OPTIONAL EQUIPMENTS Ô

ENGINE

- Remote Radiator Cooling
- Fuel-Water Seperator Filter

ALTERNATOR

- Anti-Condensation Heater
- Main line circuit breaker

CONTROL SYSTEM

- Remote annunciator panel
- Main Fuel Tank

OTHER ACCESSORIES

- Automatic or manual fuel filling system
- Manual oil drain pump
- Low and high fuel level alarm
- Residential silencer
- Enclosure: weater protective or sound attenuated
- Duct adapter (on radiator)
- Inlet and outlet motorised louvers

TRANSFER SWITCH

- Four Pole Contactor

DIESEL ENGINE SPECIFICATIONS

Manufacturer		Aksa				
Model		A12V190ZL				
No. of Cylindirs and Build		12-cylinder, V - Type				
Aspiration and Cooling		Turbo Charged and Search Refrigerated				
Total Displacement	L	73,15				
Bore and Stroke	mm	190 x 215				
Compression Ratio		14,5:1				
Rated Speed (rpm)	rpm	1500				
Governor		Electronic				
Oil Capacity	L	250,00				
Coolant Capacity	L	470,00				
Intake Air Flow	m³ /min.	132,00				
Radiator Cooling Air	m³ /min.	2100				
Exhaust Gas Flow	m³ /min.	285,00				
Exhaust Gas Tempratures	°C	600				
Start System		24 V d.c.				
Fuel Consumption	Load	%100	%75	%50		
	L/h	296,00	228,00	159,00		

ALTERNATOR SPECIFICATIONS

Make		Mecc Alte
Frequency	Hz	50
Design		Brushless, 4 poles
Cos Phi		0,80
Phase		3
Voltage	V	400/230
Current	А	0
Insulation Class		Н
Temperatur		Н
Stator		&'#' 'UXia
Rotor		Single Bearing System, Flexible Disc
Excitation System		Electronic (AVR)

DIEMENSIONS AND WEIGHT

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Open Type	Dry Weight	Lenght	Width	Height	Tank Capacity
	kg.	mm.	mm.	mm.	L
APD 1600J	16000	5550	2100	2600	2000

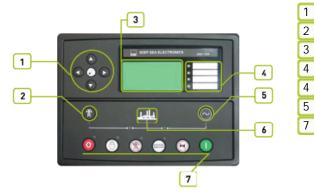
AKSA POWER GENERATION

APD 1600J

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P 732 control system - Control System



Menu navigation buttons Close mains button Main Status and instrumentation display Alarm LED's

- Close generator button
- 5 Status LED's
- 7 Operation selecting buttons

Devices O

DSE, model 7320 Auto Mains Failure control module Static battery charger 5A, 220/240 volt Emergency stop push button and fuses for control circuits

Construction and Finish

Comonents installed in sheet steel enclosure. Phosphate chemical, pre-coating of steel provides corrosion resistant surface

Polyester composite powder topcoat forms high gloss and extremely durable finish Lockable hinged panel door provides for easy component access

o Installation

Control panel is mounted generating set baseframe on robust steel stand or power module. Located at side of generating set with properly panel visibility.

Generating Set Control Unit 0

H\Y``8G9`+' &\$`Webfc``a cXi`Y`]g'U'gHUbXUfX`UXX]Hjcb'hc`ci f'[YbYfUhcf'gYhg'Zfca`&) \$_J 5`i dk UfXg'UbX`ih\Uj Y'VYYb XYg][bYX hc ghUfhUbX ghcd X]YgY UbX[Ug [YbYfUh]b[gYhg h\Uh]bWi XY Y YVhfcb]WUbX bcb Y YVhfcb]WYb[]bYg "H\Y 8G9 +' &\$]bWi XYg h\Y UXX]h]cbU WUdUV]]ImcZVY]b[UVY hc a cb]hcf U a U]bg fil h]]Imtgi dd mUbX]g h\YfZcfY gi]hUVYZcfWeblfc``]b['U'ghUbXVm[YbYfUh]b['gYh]bWebAbWhjcb'k]h\Ub'UihcaUh]WhfUbgZYf'gk]hW("H\Y'8G9+' &\$'U'gc]bX]/WHYg`cdYfUHjcbU`gHUHigʻUbX`ZJi`hWebX]Hjcbgž'UihcaUHjWU``mg\iHhjb[`Xckb'h,Y`[YbYfUHjb[`gYhUbX`]bX]/WHjb[ZJi hg Vma YUbg cZ]hg @78 X]gd Umcb h Y ZcbhdUbY

Standard Specifications

Microprocessor controlled 132 x 64 pixel LCD display makes information easy to read Front panel programming and also via PC software Soft touch membrane keypad and five key menu navigation Remote communications via RS232, RS485 and ethernet and SMS messaging Event logging (50) showing date and time Multiple date and time engine exercise mode and maintenance scheduler

Engine :

Alternator :

Control System :

Aksa

Mecc Alte

APD 1600J

Instruments

ENGINE Engine speed Oil pressure Coolant temperature Run time Battery volts Engine maintenance due GENERATOR Voltage (L-L, L-N) Current (L1-L2-L3) Frequency Earth current kW Pf kVAr kWh, kVAh, kVArh Phase sequence MAINS Voltage (L-L, L-N) Frequency

Options

High oil temperature shut down Low fuel level shut down Low fuel level alarm High fuel level alarm **EXPANSION MODULES** Editional LED module (2548) Expension relay module (2157) Expansion input module (2130)

Protection Circuits

P 732 control system

WARNING Charge failure Battery under voltage Fail to stop Low fuel level (opt.) kW over load Negative phase sequence PRĚ-ALARMS Low oil pressure High engine temperature Low engine temperature Over /Under speed Under/over generator frequency Under/over generator voltage ECU warning SHUT DOWNS Fail to start Emergency stop Low oil pressure High engine temperature Low coolant level Over /Under speed Under/over generator frequency Under/over generator voltage Oil pressure sensor open Phase rotation ELECTRICAL TRIP Earth fault kW over load Generator over current Negative phase sequence

Standards

Elecrical Safety / EMC compatibility BS EN 60950 Electrical business equipment BS EN 61000-6-2 EMC immunity standard BS EN 61000-6-4 EMC emission standard

0 Static Battery Charger

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